

CLAIMS

1. A process for preparing GMP from bovine whey, comprising:
processing bovine whey to remove fat, whey protein and aggregated proteins to produce a deproteinized whey;
concentrating the DPW;
acidifying the DPW;
at acid pH, contacting the DPW with an ion exchange resin to remove non-GMP peptides and proteins to obtain a resin effluent;
neutralizing the resin effluent;
subjecting the resin effluent to microfiltration to remove aggregated protein and fat;
subjecting the resin effluent to diafiltration to remove lactose, small peptides and minerals to provide a purified resin effluent;
concentrating and drying the resin effluent.
2. A process for preparing GMP from bovine whey, comprising:
processing bovine whey to remove fat, whey protein and aggregated proteins to produce a deproteinized whey;
concentrating the DPW;
subjecting the resin effluent to microfiltration to remove aggregated protein and fat;
acidifying the microfiltration permeate;
at acid pH, contacting the microfiltration permeate with an ion exchange resin to remove non-GMP peptides and proteins to obtain a resin effluent;
neutralizing the resin effluent;
subjecting the resin effluent to diafiltration to remove lactose, small peptides and minerals to provide a purified resin effluent; and
concentrating and drying the resin effluent.

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3. GMP from bovine deproteinized whey having an SDS Gel Purity of at least 91%.
4. GMP according to claim 3 having an SDS Gel Purity of at least 95%.
5. GMP from bovine deproteinized whey produced by the process of either claim 1 or 2.
6. GMP according to claim 5 having an SDS Gel Purity of at least 91%.

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